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Please amend the paragraph bridging pages 35 and 36 to read as follows:

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Amended

Bloomington *Drosophila* Stock Center at Indiana University. A complete list of available balancer chromosomes is available on the world wide web at flystocks.bio.indiana.edu. Methods of constructing stocks utilizing balancer chromosomes are well known in the art as described, for example, in Greenspan, *supra*, 1997.

Please amend the paragraph bridging pages 64 and 65 to read as follows:

03

Sequence analysis using the BLAST program on the world wide web at either the Berkeley *Drosophila* Genome Project website or at the NCBI website revealed that about 15% of the transcripts represented sequences currently available in *Drosophila* databases (Table 4). In particular, the following genes were identified with altered RNA expression levels in *Appl^d* flies. *Shibire* (*shi*), which encodes dynamin (van der Blik and Meyerowitz, Nature 351:411-414 (1991)); *cap-n-collar* (*cnc*), which encodes a bZIP-like transcription factor (Mohler et al., Mech. Dev. 34:3-9 (1991)), *Pbprp-2*, which encodes a pheromone-binding-protein-related-protein (Pikielny et al., Neuron 12:35-49 (1994)); *RpL9*, encoding ribosomal protein L9 (Schmidt et al., Mol. Gen. Genet. 251:381-387 (1996)); *Dhod* (Jones et al., Mol. Gen. Genet. 219:397-403 (1989)), 18S ribosomal RNA; *Tat-binding protein-1* (*Tbp-1*, FlyBase FBgn0026321) of the proteasome; and a homolog of rat *exo84* of the exocyst secretion complex (Kee et al., Proc. Natl. Acad. Sci. USA 94:14438-14443 (1997)).

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Please amend the paragraph at page 65, lines 7-20 to read as follows:

ay mRNA levels also were compared using a DNA microarray made from 400 randomly chosen ESTs from the Berkeley *Drosophila* Genome Project UniGene Library, which can be found on the world wide web. Briefly, a glass slide DNA microarray was prepared as described in White et al., Science 286:2179-2184 (1999), from the UniGene Library (plates #54, 55, 56 and 57; Research Genetics, Huntsville, AL). PolyA+ RNA was prepared from groups of 100 whole flies using MicroPoly(A)Pure (Ambion, Austin, TX) according to the manufacturer's instructions, and subsequently labeled and hybridized to the arrays as described in White et al., *supra*, 1999. ESTs showing >2-fold expression difference were analyzed as described above.

REMARKS

As requested in the Office communication mailed June 3, 2003 (Paper No. 15), Applicants have amended the specification to remove hyperlinks and other forms of browser-executable code. The amendments to the specification do not add any new subject matter and entry of the amendments is respectfully requested.

Applicants have set forth above the amendment to specification in clean form as required under 37 C.F.R.